

# Dobson Dunavant

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## Education

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**B.S. in Computer Science**, College of Charleston, 3.8 GPA

(expected) May 2024

**B.S. in Accounting**, College of Charleston, D1 Soccer Player

Dec 2018

## Skills

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**Languages:** Python, SQL, Java, TypeScript, JavaScript, C, C++, Dart, HTML, CSS

**Frameworks:** Angular, React, Flutter, Next.js, Spring, Django, Flask, Express.js, Node.js

**Libraries:** Apollo, Axios, Prisma, Jest, RxJS, OpenCV, TensorFlow, pandas, NumPy, matplotlib

**Developer Tools:** AWS, Firebase, Docker, WebSocket, GraphQL, PostgreSQL, MongoDB, Git

## Experience

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**Robotics & Machine Learning Co-Op**, Mercedes-Bens – Ladson, SC

Sept 2023 – Current

- Developed a real-time, autonomous inventory scanning system using a multi-layered machine learning system deployed onto Raspberry Pi edge devices that communicate with **AWS** and SAP via **WebSocket** connections
- Led a team of four students under two professors while collaborating directly with Mercedes-Benz stakeholders.
- Demonstrated significant improvement in accuracy and real-time awareness of high-importance inventory during the initial system implementation

**Software Engineering Intern**, Savvas Learning Company – Phoenix, AZ

May 2023 – Aug 2023

- Developed full-stack solutions for an industry-leading K-12 ed-tech platform across an **Angular 16** MFE, **Apollo**, **GraphQL**, **RxJS**, **Spring**, **PostgreSQL**, and **Jest** tech stack
- Resolved nine Jira tickets across sprints as a member of an Agile team
- Led development of two hackathon projects, **Karate** for improved API test coverage and a hackathon-winning **PowerBI** student analysis dashboard, both of which are now running in production

**Data Engineering Intern**, Fiscal Spreading & Tracking – Charleston, SC

Sept 2022 – Jan 2023

- Performed transition from a monolithic desktop app to a microserviced, serverless web app, utilizing **React**, **Django**, **PostgreSQL**, and multiple **AWS** cloud services such as **Lambda**, **S3**, and **RDS**
- Optimized API calls, assessed existing API performance, then refactored for improved query and data handling, reducing server load and user wait times
- Containerized various data tasks to separate concerns and minimize/mitigate single-point-of-failure situations using **Docker** containers

**Sales Engineer & Scrum Master**, Ceterus – Charleston, SC

Mar 2018 – Mar 2021

- Engineered technical solutions for over 125 clients by translating complex technical features into tangible business benefits, leading to increased sales and enhanced customer engagement
- Fostered these client relationships, resulting in enhanced product adoption and customer satisfaction/retention
- Achieved a 21% reduction in time blocked within six months by addressing common blockers while facilitating knowledge-sharing between interdependent teams for more educated spring planning and execution